Title (en)

CLOSE COUPLED SERIES TURBINE MOUNTING

Title (de)

GESCHLOSSENE GEKOPPELTE AUFHANGUNG FÜR TURBINEN IN SERIE

Title (fr)

MONTAGE COUPLE ET FERME DE TURBINES EN SERIES

Publication

EP 0779831 A4 20001206 (EN)

Application

EP 96912860 A 19960418

Priority

- US 9605345 W 19960418
- US 49873995 A 19950706

Abstract (en)

[origin: US5772711A] Apparatus for indicating when the air intake filter of portable turbines useful with spray paint guns is blocked and a method and apparatus for close coupled mounting of a pair of series connected turbines by axially aligning and abutting the axial outlet of one turbine against the axial inlet of the other turbine with a seal surrounding the turbine junction and with tie rods extending between radially projecting apertured ears of the turbines securing the turbines together and supporting the turbines on a generally U-shaped mounting bracket having spaced apart flanges engaging the tie rods. An air baffle partitions the space containing the two turbines into two air plenums to prevent hot air exhausted by the larger turbine from entering the air inlet to the turbine impellers. A visual or audible indicator provides a perceptible indication that the filter is becoming blocked.

IPC 1-7

B01D 39/00; F04B 25/00; F04D 25/16; F04D 29/62; F04D 27/02

IPC 8 full level

B05B 7/02 (2006.01); **F04D 25/16** (2006.01); **F04D 27/02** (2006.01); **F04D 29/62** (2006.01)

CPC (source: EP US)

F04D 25/16 (2013.01 - EP US); **F04D 27/008** (2013.01 - EP US); **F04D 29/626** (2013.01 - EP US); Y10T 29/49229 (2015.01 - EP US)

Citation (search report)

- [A] DE 1628318 B1 19700924 - LICENTIA GMBH [DE]
- [A] FR 670949 A 19291206 - PARIS & DU RHONE
- [A] DE 458200 C 19280331 - CLEMENTS MFG COMPANY
- See references of WO 9702082A1

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CN110630526A

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

US 5772711 A 19980630; CA 2198754 A1 19970123; CA 2198754 C 20001010; CN 1159163 A 19970910; EP 0779831 A1 19970625; EP 0779831 A4 20001206; JP H10505649 A 19980602; TW 342054 U 19981001; US 5639222 A 19970617; WO 9702082 A1 19970123

DOCDB simple family (application)

US 75383096 A 19961202; CA 2198754 A 19960418; CN 96190776 A 19960418; EP 96912860 A 19960418; JP 50511497 A 19960418; TW 86210968 U 19970309; US 49873995 A 19950706; US 9605345 W 19960418